

UPS control unit

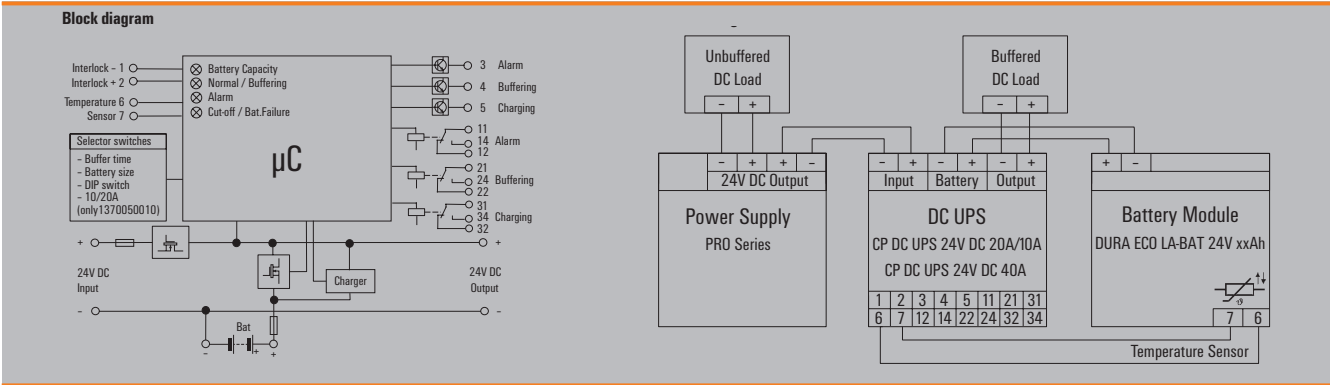
UPS control unit

- Two 24 V models in 10 A/20 A and 40 A
- Temperature-compensated charging feature for long battery life
- Integrated battery diagnostics including continuous availability test
- Status relay and additional transistor outputs for remote monitoring
- Convenient LED displays for easy error analysis



Technical data

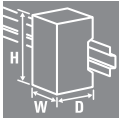
Signalling	
Status relay (max. load)	Fault (alarm) (30 V AC/DC 0.1 A), Battery operation (buff.) (30 V AC/DC 0.1 A), Laden (Charg.) (30V AC/DC 0,1A)
Transistor outputs (24&...27 V DC max. load 150 mA)	Battery operation (buff.), Charging, Fault (alarm)
Status indicator	Three-colour LED: Battery capacity >85% green, >40% yellow, >20% red, <20% red (Flashing), Green/yellow LED: normal / buffering, Yellow/red LED: temperature alarm / alarm, Yellow/red LED: switch-off / battery fault
General data	
Ambient temperature (operational)	-25 °C...70 °C
Storage temperature	-40 °C...85 °C
Humidity	5...95 %, no condensation
Protection degree	IP20
Protection class	III, with no ground connection, for SELV
Pollution degree	2
Overvoltage category	III
Insulation voltage	1 kV DC
Protection against reverse voltages from the load	32...34 V DC
Parallel connection option	yes, max. 2, Yes, with diode module
Housing version	Metal, corrosion resistant
Mounting position, installation notice	Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.
Overload protection	Yes
Short-circuit protection	Yes
EMC / shock / vibration	
Noise emission in accordance with EN55032	Class B
Interference immunity test acc. to	EN 61000-4-2 (ESD) EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted) EN 61000-4-11 (dips)
Resistance to vibration / Shock	2.3 g / 30 g in all directions
Electrical safety (applied standards)	
Electrical machine equipment	Acc. to EN60204
Safety transformers for switch-mode power supplies	According to EN 61558-2-16
For use with electronic equipment	Acc. to EN50178 / VDE0160



UPS control unit

Uninterruptible power supplies

UPS control unit



Technical data

Input
Rated input voltage
DC input voltage range
Input current
Input fuse (internal)
DC current consumption
Reverse polarity protection
Output
Rated output voltage
Output voltage
Nominal output current for U_{nom}
Integrated battery charger
Charging feature
Charging voltage (temperature compensated)
Temperature coefficient
Charging current
Battery availability test
Battery module
Rated voltage
Storage medium
Parallel connection option
Operating elements and control inputs
Output current selector switch
Selector switch battery
Selector switch buffer times
Function DIP switch
Remote disconnection (Interlock)
Temperature probe
General data
Buffer times
Degree of efficiency
Power loss
Depth x width x height / Net weight
Approvals
Approvals

Connection data	
Wire connection method	
Wire cross-section, rigid min/max	mm²
Wire cross-section, flexible min/max	mm²
Wire cross-section, AWG/kcmil min/max	
Tightening torque	Nm
Note	

Ordering data

Type	Qty.	Order No.
CP DC UPS 24V 20A/10A	1	1370050010
Note		

CP DC UPS 24V 20A/10A



24 V DC
20...30 V DC
≤ 13A (for 10A), ≤ 23A (for 20A)
Yes
max. 200 mA (without battery), max. 0.5 A (with fully charged battery)
Yes
24 V DC ± 1 %
$V_o = V_{in} - 0.2 \text{ V}$ normal operation (Imax), $V_o = V_{in} - 0.3 \text{ V}$ battery supply (I max)
20 A @ 60 °C
IU characteristic curve
27, 48 V @ 20°C
- 48 mV / °C
0.15 cA
every minute
24 V
1.3 Ah, 3.4 Ah, 7.2 Ah, 12 Ah, 17 Ah, Selectable with rotary switch
yes, max. 2
20 A, 10 A
1.3 Ah, 3.4 Ah, 7.2 Ah, 12 Ah, 17 Ah, No Battery, Service
0.5 min, 1 min, 3 min, 5 min, 10 min, 20 min, 30 min, 45 min, ∞, ∞ w/O
Inversion of transistor outputs, Operation without temperature probe
Yes
NTC 100 kΩ
Depending on the connected battery
≥ 96% normal mode, battery is being charged, ≥ 98% normal mode, battery is charged, ≥ 98% buffer mode
< 10 W
150 / 66 / 130 mm / 1139 g
BURVER; CE; cULus; DETNORVER; TUEV

Input/output/battery	Signal
Screw connection	Screw connection
0.5 / 16	0.2 / 1.5
0.5 / 16	0.2 / 1.5
26 / 6	30 / 15
1.2...1.5	

Type	Qty.	Order No.
CP DC UPS 24V 20A/10A	1	1370050010

CP DC UPS 24V 40A



24 V DC
20...30 V DC
≤ 43 A
Yes
max. 200 mA (without battery), max. 0.5 A (with fully charged battery)
Yes
24 V DC ± 1 %
$V_o = V_{in} - 0.2 \text{ V}$ normal operation (Imax), $V_o = V_{in} - 0.3 \text{ V}$ battery supply (I max)
40 A @ 60 °C
IU characteristic curve
27, 48 V @ 20°C
- 48 mV / °C
0.15 cA
every minute
24 V
3.4 Ah, 7.2 Ah, 12 Ah, 17 Ah, Selectable with rotary switch
yes, max. 2
3.4 Ah, 7.2 Ah, 12 Ah, 17 Ah, No Battery, Service
0.5 min, 1 min, 3 min, 5 min, 10 min, 20 min, 30 min, 45 min, ∞, ∞ w/O
Inversion of transistor outputs, Operation without temperature probe
Yes
NTC 100 kΩ
Depending on the connected battery
≥ 96% normal mode, battery is being charged, ≥ 98% normal mode, battery is charged, ≥ 98% buffer mode
< 10 W
150 / 66 / 130 mm / 1051.8 g
BURVER; CE; cULus; DETNORVER; TUEV

Input/output/battery	Signal
Screw connection	Screw connection
0.5 / 16	0.2 / 1.5
0.5 / 16	0.2 / 1.5
26 / 6	30 / 15
1.2...1.5	

Type	Qty.	Order No.
CP DC UPS 24V 40A	1	1370040010

UPS control unit - Accessories

Small metal foot



Type	Order No.
MTA 30 MF	1251320000

Large metal foot



Type	Order No.
MTA 45 MF	1251310000

Small plastic foot



Type	Order No.
MTA 30 BK	1168970000

Large plastic foot



Type	Order No.
MTA 45 BK	1962250000

Small wall mounting



Type	Order No.
CP A WALLADAPTER 30 MM	1461870000

Large wall mounting



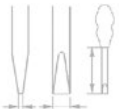
Type	Order No.
CP A WALLADAPTER 45 MM	1461850000

Temperature probe



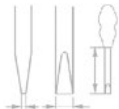
Type	Kabellänge	Order No.
CP DC UPS TF25	2.5 m	1444540000
CP DC UPS TF05	0.5 m	1444480000

Small screwdriver



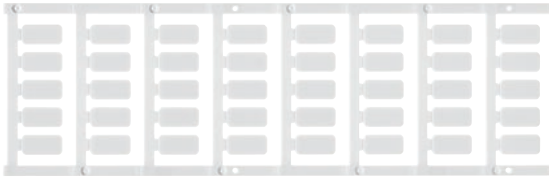
Type	Size/AF	a	b	c	Order No.
SDIS 0.5X3.0X100		0.5	3	100	2749800000

Large screwdriver



Type	Size/AF	a	b	c	Order No.
SDIS 1.0X5.5X125		1	5.5	125	2749850000

Markers



Type	Colour	Qty.	Order No.
SM 18/9.5 K MC NE WS	white	200	1248580000

End bracket

For DIN rail TS 35



Polyamide with fibre glass, screwable	Colour	Torque	Qty.	Order No.
WEW 35/1 SW	black	1.2 Nm	50	1162600000